



K20U 1810

Reg. No. :

Name :

**III Semester B.Sc. Degree CBCSS (OBE) – Regular
Examination, November 2020
(2019 Admission Only)
CORE COURSE IN BOTANY/PLANT SCIENCE
3B03 BOT/PLS : Plant Diversity I – Algae and Bryophytes**

Time : 3 Hours

Max. Marks : 40

Instruction : Draw diagrams wherever specified.

PART – A

Objective type questions. Answer **all** :

(4×1=4)

1. Mannitol is the reserve food found in the members belongs to

- | | |
|-------------------------|-------------------------|
| a) <i>Phaeophyceae</i> | b) <i>Chlorophyceae</i> |
| c) <i>Xanthophyceae</i> | d) <i>Myxophyceae</i> |

2. The wall of globule in Chara is composed of

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|-----------------|------------------------|
| a) Shield cells | b) Primary capitulum |
| c) Manubrium | d) Secondary capitulum |

3. When moss spores germinate, they form

- | | |
|----------------------|-------------|
| a) Leafy gametophyte | b) Capsule |
| c) Protonema | d) Rhizoids |

4. The rhizoids in Riccia are

- | | |
|------------------|----------------|
| a) Multicellular | b) Unicellular |
| c) Branched | d) None |

PART – B

Short essay questions. Answer **any eight** :

(8×2=16)

5. Give an account of thallus structure of *Pinnularia*.

6. What are the methods of reproduction in *Zygnema* ?

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7. Draw a neat labelled diagram of the T.S. of *Riccia* thallus.
8. Explain the cell structure of *Ulothrix*.
9. Write an account on Eutrophication.
10. Discuss the economic importance of Bryophytes.
11. Briefly explain the algal preservation methods in algae.
12. Differentiate Liverworts from Mosses.
13. Comment on Eutrophication.
14. Write down the ecological significance of Bryophytes.
15. What is diatomaceous earth ?
16. Discuss the preservation of macroalgae by herbarium technique.

PART – C

Essay questions. Answer **any four** :

(4×3=12)

17. Briefly explain the different types of asexual spores in algae.
18. Give an account on Walne's Medium.
19. Write down the thallus structure of *Anthoceros*.
20. Explain the asexual reproduction in *volvox*.
21. Write an account on sexual reproduction in *Sargassum*.
22. Briefly explain the economic importance of Algae.

PART – D

Long essay questions. Answer **any one** :

(1×8= 8)

23. With suitable diagrams, explain the life cycle of *Polysiphonia*. Add notes on its post fertilization changes.
 24. Outline the classification of Algae proposed by Fritsch.
 25. Describe the life cycle of *Marchantia* with labelled diagrams.
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